

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/010944

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B21D51/54 B21K1/04 F42B5/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B21D B21K F42B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CH 178 286 A (BIGINELLI ORESTE) 15 July 1935 (1935-07-15)	1,2, 27-29
A	figures 1-12	54
Y	US 2 079 102 A (ORESTE BIGINELLI) 4 May 1937 (1937-05-04)	1,2, 27-29
A	figures 1-24	54
Y	BE 426 093 A (ORESTE BIGINELLI) 28 February 1938 (1938-02-28)	1,2, 27-29
A	figures 1-3	54
A	FR 992 854 A (CIE GENERALE DU DURALUMIN ET D) 24 October 1951 (1951-10-24)	1,27,54
X	figures 1-12	76
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

23 December 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 527 413 A (VERSON ALLSTEEL PRESS COMPANY) 9 July 1985 (1985-07-09) figures 1-4 -----	1,27,54
X	GB 752 448 A (BOFORS AB) 11 July 1956 (1956-07-11) figures 1,2 -----	76

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/010944

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
CH 178286	A 15-07-1935	CH	191450 A	15-06-1937
US 2079102	A 04-05-1937	NONE		
BE 426093	A	NONE		
FR 992854	A 24-10-1951	NONE		
US 4527413	A 09-07-1985	US AU AU CA DE EP IL JP KR US ZA AU AU CA DE EP IL JP KR US	4509356 A 571396 B2 3185884 A 1220166 A1 3475486 D1 0137580 A2 72964 A 60072617 A 9107126 B1 4562719 A 8403963 A 571457 B2 1932083 A 1220986 A1 3372079 D1 0101146 A1 69454 A 59030431 A 9008351 B1 4559802 A	09-04-1985 14-04-1988 28-03-1985 07-04-1987 12-01-1989 17-04-1985 31-07-1987 24-04-1985 18-09-1991 07-01-1986 29-01-1986 21-04-1988 28-03-1985 28-04-1987 23-07-1987 22-02-1984 30-01-1987 18-02-1984 17-11-1990 24-12-1985
GB 752448	A 11-07-1956	BE CH FR	542649 A 337098 A 1133790 A	15-03-1959 02-04-1957